

gatatcggttacgcttcattgtgccgctcaatacggatacgcactatattat
cagccacgaacaaatacagagaatgaagcaaggagcatttcttatcaata
ctgggcgcggtccactttagatatacctatgagttggttaaagcattagaa
aacgggaaactgggcggtgccgcatggatgtattggaaggagaggaaga
gtttttctactctgattgcacccaaaaaccaattgataatcaatttttac
ttaaacttcaaagaatgcctaactgtgataatcacaccgcatacggcctat
tataccgagcaagcgttgctgtatgccgttgaaaaaaccattaaaaactg
tttggattttgaaaggagacaggagcatgaatagaataaaaagttgcaata
ctgtttgggggttgctcagaggagcatgacgtatcggtaaaatctgcaat
agagatagccgctaacaattaataaagaaaaatacgaagccgttatacattg
gaattacgaatatctggtgtatggaaaatgtgcgaaaaaccttgccggaa
tggaaaaacgacaattgctattcagctgtactctcgccggataaaaaaat
gcacggattacttgttaaaaaagaacctgaatatgaaatcaacctgttg
atgtagcattttcagctttgcatggcaagtcaggtgaagatggatccata
caaggtctgtttgaattgtccggtatccctttttaggctgcatattca
aagctcagcaatttgtatggacaaaatcgttgacatacatcgttgcaaaa
atgctgggatagctactcccgccttttgggttattaataaagatgatagg
ccggtggcagctacgtttacctaactctgtttttggttaagccggcgctc
aggctcatccctccggtgtgaaaaaagtcaatagcgcggacgaattggact
acgcaattgaatcggcaagacaatatgacagcaaaatcttaattgagcag
gctgtttcgggctgtgaggtcggttgtgcggtattgggaaacagtgccgc
gttagttgttggcgaggtggaccaaatacaggctgcagtacggaatctttc
gtattcatcaggaagtcgagccggaaaaaggctctgaaacgcagttata
accgttcccgcagacctttcagcagaggagcagggacggatacaggaaac
ggcaaaaaaaatatataaagcgctcggctgtagaggtctagcccgtgtgg
atatgtttttacaagataacggccgcattgtactgaacgaagtcaatact
ctgcccggtttcacgtcatacagtcgttatccccgtatgatggcgctgc
aggatttgacttcccgaactgattgaccgcttgatcgtattagcgttaa
aggggtgataagcatggaaataggatttacttttttagatgaaatagtac
acgggtgttcggtgggacgctaaatatgccacttgggataatttcaccgga
aaaccggttgacggttatgaagtaaatcgcatgttagggacatacaggtt
ggctgaatcgcttttgaaggcaaaagaactggctgctacccaagggtagc
gattgcttctatgggacggttaccgctcctaagectgctgtaaactgtttt
atgcaatgggctgcacagccggaaaaataacctgacaaaggaaagttatta
tcccaatattgaccgaactgagatgatttcaaaaggatacgtggcttcaa
aatcaagccatagccgcg

Fig 1

										Majority
		10		20		30		40		
1	-	-	-	-	-	-	-	-	-	U94526.seq
1	-	-	-	-	-	-	-	-	-	U94527.seq
1	-	-	-	-	-	-	-	-	-	U94528.seq
1	-	-	-	-	-	-	-	-	-	U94529.seq
1	-	-	-	-	-	-	-	-	-	U94530.seq
630	-	-	-	-	-	-	-	-	-	L15304.seq
783	-	-	-	-	-	-	-	-	-	U72704.seq
1090	-	-	-	-	-	-	-	-	-	U00456.seq
										Majority
		50		60		70		80		
1	-	-	-	-	-	-	-	-	-	U94526.seq
1	-	-	-	-	-	-	-	-	-	U94527.seq
1	-	-	-	-	-	-	-	-	-	U94528.seq
1	-	-	-	-	-	-	-	-	-	U94529.seq
1	-	-	-	-	-	-	-	-	-	U94530.seq
629	-	-	-	-	-	-	-	-	-	L15304.seq
783	-	-	-	-	-	-	-	-	-	U72704.seq
1050	-	-	-	-	-	-	-	-	-	U00456.seq
										Majority
		90		100		110		120		
1	-	-	-	-	-	-	-	-	-	U94526.seq
1	-	-	-	-	-	-	-	-	-	U94527.seq
1	-	-	-	-	-	-	-	-	-	U94528.seq
1	-	-	-	-	-	-	-	-	-	U94529.seq
1	-	-	-	-	-	-	-	-	-	U94530.seq
629	-	-	-	-	-	-	-	-	-	L15304.seq
783	-	-	-	-	-	-	-	-	-	U72704.seq
1010	-	-	-	-	-	-	-	-	-	U00456.seq
										Majority
		130		140		150		160		
1	-	-	-	-	-	-	-	-	-	U94526.seq
1	-	-	-	-	-	-	-	-	-	U94527.seq
1	-	-	-	-	-	-	-	-	-	U94528.seq
1	-	-	-	-	-	-	-	-	-	U94529.seq
1	-	-	-	-	-	-	-	-	-	U94530.seq
603	-	-	-	-	-	-	-	-	-	L15304.seq
783	-	-	-	-	-	-	-	-	-	U72704.seq
970	-	-	-	-	-	-	-	-	-	U00456.seq

Fig2 (sheet
1 of 10)

	A C A C G G G C A A G C C C T C T G C A T C C A A G C A C C C G A T A T A C T T																				Majority	
	170					180					190					200						
35	A	C	A	C	G	G	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U94526.seq
35	A	C	A	C	G	■	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U94527.seq
35	A	C	A	C	G	G	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U94528.seq
35	A	C	A	C	G	G	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U94529.seq
35	A	C	A	C	G	G	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U94530.seq
563	A	C	A	C	G	G	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	L15304.seq
770	A	C	A	C	G	G	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U72704.seq
930	A	C	A	C	G	■	G	C	A	A	G	C	C	C	T	C	T	G	C	A	T	U00456.seq
T C T T T G C C G T T T C C T G C A C C C G A T T T C G T T C C T C G A C C G G																					Majority	
	210					220					230					240						
75	T	C	T	T	T	G	C	C	G	T	T	T	C	C	T	G	C	A	C	C	C	U94526.seq
75	T	C	T	T	T	G	C	C	G	T	T	T	C	■	T	G	C	A	C	C	C	U94527.seq
75	T	C	T	T	T	G	C	C	G	T	T	T	C	C	T	G	C	A	C	C	C	U94528.seq
75	T	C	T	T	T	G	C	C	G	T	T	T	C	C	T	G	C	A	C	C	C	U94529.seq
75	T	C	T	T	T	G	C	C	G	T	T	T	C	C	T	G	C	A	C	C	C	U94530.seq
523	T	C	T	T	T	G	C	C	G	T	T	T	C	C	T	G	C	A	C	C	C	L15304.seq
730	T	C	T	T	T	G	C	C	G	T	T	T	C	C	T	G	C	A	C	C	C	U72704.seq
890	T	C	T	T	T	G	C	C	G	T	T	T	C	■	T	G	C	A	C	C	C	U00456.seq
A A T G T C T G C G G G A A C T G T A A T C A T C G C A T T T T C T G A G C C T																					Majority	
	250					260					270					280						
115	A	A	T	G	T	C	T	G	C	G	G	G	A	A	C	T	G	T	A	A	T	U94526.seq
115	A	A	T	G	T	C	T	G	C	■	G	G	A	A	C	■	T	A	A	T	C	U94527.seq
115	A	A	T	G	T	C	T	G	C	G	G	G	A	A	C	T	G	T	A	A	T	U94528.seq
115	A	A	T	G	T	C	T	G	C	G	G	G	A	A	C	T	G	T	A	A	T	U94529.seq
115	A	A	T	G	T	C	T	G	C	G	G	G	A	A	C	T	G	T	A	A	T	U94530.seq
483	A	A	T	G	T	C	T	G	C	G	G	G	A	A	C	T	G	T	A	A	T	L15304.seq
690	■	A	A	T	G	T	C	T	G	C	■	G	G	A	A	C	■	T	A	A	T	U72704.seq
850	A	A	T	G	T	C	T	G	C	■	G	G	A	A	C	■	T	A	A	T	C	U00456.seq
T T T T C C G G C T C G T T T T C C T G A T G G A T G C G G A A G A T A C C G T																					Majority	
	290					300					310					320						
155	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U94526.seq
155	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U94527.seq
155	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U94528.seq
155	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U94529.seq
155	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U94530.seq
443	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	L15304.seq
650	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U72704.seq
810	T	T	T	T	C	C	G	G	C	T	C	G	T	T	T	T	C	C	T	G	A	U00456.seq

FIG. 2 (sheet 2 of 10)
Cont'd

	. G G C T C A G C C G G A T T T G A T C C A C T T C G C C G A C A A T C A A A T C																														Majority											
	330										340										350										360											
195	G	G	C	T	C	A	G	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U94526.seq	
195	G	G	C	T	C	A	■	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U94527.seq	
195	G	G	C	T	C	A	G	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U94528.seq	
195	G	G	C	T	C	A	G	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U94529.seq	
195	G	G	C	T	C	A	G	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U94530.seq	
403	G	G	C	T	C	A	G	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	L15304.seq	
610	G	G	C	T	C	A	G	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U72704.seq	
770	G	G	C	T	C	A	■	C	C	G	G	A	T	T	T	G	A	T	C	C	A	C	T	T	C	G	C	C	G	A	C	A	A	T	C	A	A	A	T	C	U00456.seq	
A T C C T C G T T C C C C A T G A C C G C A C A C C C G A C C T C A C A G C C C																															Majority											
	370										380										390										400											
235	A	T	C	C	T	C	G	T	T	C	C	C	A	T	G	A	C	C	G	C	A	C	A	C	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U94526.seq		
235	A	T	C	C	T	C	G	T	T	■	C	C	C	A	T	G	A	C	C	G	C	■	C	A	■	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U94527.seq	
235	A	T	C	C	T	C	G	T	T	C	C	C	A	T	G	A	C	C	G	C	A	C	A	C	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U94528.seq		
235	A	T	C	C	T	C	G	T	T	C	C	C	A	T	G	A	C	C	G	C	A	C	A	C	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U94529.seq		
235	A	T	C	C	T	C	G	T	T	C	C	C	A	T	G	A	C	C	G	C	A	C	A	C	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U94530.seq		
363	A	T	C	C	T	C	G	T	T	C	C	C	A	T	G	A	C	C	G	C	A	C	A	C	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	L15304.seq		
570	A	T	C	C	T	C	G	T	T	C	C	C	A	T	■	A	C	C	G	C	A	C	A	■	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U72704.seq		
730	A	T	C	C	T	C	G	T	T	■	C	C	C	A	T	G	A	C	C	G	C	■	C	A	■	C	C	G	A	C	C	T	C	A	C	A	G	C	C	C	U00456.seq	
G A A A T C G C T T G C T C A A T T A A G A T T T T T C C A T C A T A T T G T C																															Majority											
	410										420										430										440											
275	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U94526.seq	
275	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U94527.seq	
275	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U94528.seq	
275	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U94529.seq	
275	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U94530.seq	
323	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	L15304.seq	
530	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U72704.seq	
690	G	A	A	A	T	C	G	C	T	T	G	C	T	C	A	A	T	T	A	A	G	A	T	T	T	T	T	C	C	A	T	C	A	T	A	T	T	G	T	C	U00456.seq	
C T G C C G C T T C T A T C G C A G C G T T A A G T T C T T C C G T A C C G T T																															Majority											
	450										460										470										480											
315	C	T	G	C	C	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	A	A	G	T	T	C	T	T	C	C	G	T	A	C	C	G	T	T	U94526.seq	
315	C	T	G	C	■	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	■	A	A	G	T	T	C	T	T	C	C	G	T	A	C	■	G	T	T	U94527.seq
315	C	T	G	C	C	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	A	A	G	T	T	C	T	T	C	C	G	T	A	C	C	G	T	T	U94528.seq	
315	C	T	G	C	C	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	A	A	G	T	T	C	T	T	C	C	G	T	A	C	C	G	T	T	U94529.seq	
315	C	T	G	C	C	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	A	A	G	T	T	C	T	T	C	C	G	T	A	C	C	G	T	T	U94530.seq	
283	C	T	G	C	C	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	A	A	G	T	T	C	T	T	C	C	G	T	A	C	C	G	T	T	L15304.seq	
490	C	T	G	C	C	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	A	A	G	T	T	C	T	T	C	C	G	T	A	C	C	G	T	T	U72704.seq	
650	C	T	G	C	■	G	C	T	T	C	T	A	T	C	G	C	A	G	C	G	T	T	■	A	A	G	T	T	C	T	T	C	C	G	T	A	C	■	G	T	T	U00456.seq

FIG. 2 (continued)
Sheet 3 of 10

	T A C T T T G G T T A C G C C A A A G G A C G A A C C T G A C C G T G C C G G C																								Majority	
	490						500						510						520							
355	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U94526.seq
355	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U94527.seq
355	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U94528.seq
355	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U94529.seq
355	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U94530.seq
243	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	L15304.seq
450	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U72704.seq
610	T	A	C	T	T	T	G	G	T	T	A	C	G	C	C	A	A	A	G	G	A	C	G	A	A	U00456.seq
	T T C A C A A A G A C A G G G T A G G T A A G C G C A C C C G C C T C C G G C T																								Majority	
	530						540						550						560							
395	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U94526.seq
395	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U94527.seq
395	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U94528.seq
395	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U94529.seq
395	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U94530.seq
203	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	L15304.seq
410	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U72704.seq
570	T	T	C	A	C	A	A	A	G	A	C	A	G	G	G	T	A	G	G	T	A	A	G	C	G	U00456.seq
	T G T C A C C T T T A T C A A T C A T T T G A A A T T C G G G A A C G G C G A T																								Majority	
	570						580						590						600							
435	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U94526.seq
435	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U94527.seq
435	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U94528.seq
435	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U94529.seq
435	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U94530.seq
163	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	L15304.seq
370	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U72704.seq
530	T	G	T	C	A	C	C	T	T	T	A	T	C	A	A	T	C	A	T	T	T	G	A	A	A	U00456.seq
	G C C C G C A T T T T T T G T A A G A A T G T A G G C C A G T G A T T T G T C C																								Majority	
	610						620						630						640							
475	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U94526.seq
475	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U94527.seq
475	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U94528.seq
475	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U94529.seq
475	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U94530.seq
123	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	L15304.seq
330	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U72704.seq
490	G	C	C	C	G	C	A	T	T	T	T	T	T	T	G	T	A	A	G	A	A	T	G	T	A	U00456.seq

FIG. 2 (cont'd)
Sheet 4 of 10

	. A T G C A A G C T G C G G A G C T T T G A A T A T C A C A G C C C A C A T A G G																				Majority
	650					660					670					680					
515	A T G C A A G C T G C G G A G C T T T G A A T A T C A C A G C C C A C A T A G G																				U94526.seq
515	A T G C A A G C T G C G G A G C T T T G A A T A T C C A G C C C A C A T A G G																				U94527.seq
515	A T G C A A G C T G C G G A G C T T T G A A T A T C A C A G C C C A C A T A G G																				U94528.seq
515	A T G C A A G C T G C G G A G C T T T G A A T A T C A C A G C C C A C A T A G G																				U94529.seq
515	A T G C A A G C T G C G G A G C T T T G A A T A T C A C A G C C C A C A T A G G																				U94530.seq
83	A T G C A A G C T G C G G A G C T T T G A A T A T C A C A G C C C A C A T A G G																				L15304.seq
290	A T G C A A G C T G C G G A G C T T T G A A T A T C C A G C C C A C A T A G G																				U72704.seq
450	A T G C A A G C T G C G G A G C T T T G A A T A T C C A G C C C A C A T A G G																				U00456.seq
	G G A T A C C A G A C A A T T C A A A C A G C C C C T G T A T C G C A C C A T C																				Majority
	690					700					710					720					
555	G G A T A C C A G A C A A T T C A A A C A G C C C C T G T A T C G C A C C A T C																				U94526.seq
555	G G A T A C C A G A C A A T T C A A A C A G C C C C T G T A T C G C A C C A T C																				U94527.seq
555	G G A T A C C A G A C A A T T C A A A C A G C C C C T G T A T C G C A C C A T C																				U94528.seq
555	G G A T A C C A G A C A A T T C A A A C A G C C C C T G T A T C G C A C C A T C																				U94529.seq
555	G G A T A C C A G A C A A T T C A A A C A G C C C C T G T A T C G C A C C A T C																				U94530.seq
43	G G A T A C C A G A C A A T T C A A A C A G T C C C T G A T G C A C C T																				L15304.seq
250	G G A T T C C A G A C A A T T C A A A A A C C C T G T A T C G C A C C T C																				U72704.seq
410	G G A T A C C A G A C A A T T C A A A C A G A C C C T G T A T C G C A C C A T C																				U00456.seq
	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C A T C A																				Majority
	730					740					750					760					
595	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C A T C A																				U94526.seq
595	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C C T C A																				U94527.seq
595	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C A T C A																				U94528.seq
595	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C A T C A																				U94529.seq
595	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C A T C A																				U94530.seq
7	CA T																				L15304.seq
210	C T C C C C G C A T T T G C C A T G C A A A A C T G G G A A A G C C A C A T C A																				U72704.seq
370	C T C C C C G C A T T T G C C A T G C A A A A C C G G G A A A G C C A C C T C A																				U00456.seq
	A T A C G C C G T G T T T C G T A T T C G C T T T C T T T C A T G A C A A G C A																				Majority
	770					780					790					800					
635	A T A C G C C G T G T T T C G T A T T C G C T T T C T T T C A T G A C A A G C A																				U94526.seq
635	A T A C G C C G A G T T T C G T A T T C T C T T T C T T T C A T G A C A A G C A																				U94527.seq
635	A T A C G C C G T G T T T C G T A T T C G C T T T C T T T C A T G A C A A G C A																				U94528.seq
635	A T A C G C C G T G T T T C G T A T T C G C T T T C T T T C A T G A C A A G C A																				U94529.seq
635	A T A C G C C G T G T T T C G T A T T C G C T T T C T T T C A T G A C A A G C A																				U94530.seq
4	CA T																				L15304.seq
170	A T A C G C C G T G T T T C G T A T T C G C T T T C T T T C A T G A C A A G C A																				U72704.seq
330	A T A C G C C G A G T T T C G T A T T C T C T T T C T T T C A T G A C A A G C A																				U00456.seq

FIG. 2 (cont'd)

Sheet 5 of 10

1 aacgatgccg ccatacctcct gcaaaaaaag atcaaacacgg gcaagccctc tgcataccaag
 61 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc
 121 tgcgggaact gtaatcatcg cattttctga gcctttttcc ggctcgtttt cctgatggat
 181 gcggaagata ccgtggctca gccggatttg atccacttcg ccgacaatca aatcatcctc
 241 gttccccatg accgcacacc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt
 301 tccatcatat tgcctgccc cttctatcgc agcgtaaagt tcttcctgac cgtttacttt
 361 ggttacgcca aaggacgaac ctgaccgtgc cggcttcaca aagacagggg aggtaagcgc
 421 accgcctcc ggcttgctac ctttatcaat catttgaaat tcgggaacgg cgatgcccg
 481 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgcggagc tttgaatgc
 541 acagcccaca taggggatac cagacaatac aaacagcccc tgtatcgac catcctcccc
 601 gcatttgcca tgcaaaaccg ggaaagccac atcaatacgc cgtgtttcgt attcgctttc
 661 tttcatgaca agcagcccat gcgttttcct atccggggag agtatggcgg ggagactgtc
 721 ggcttcccat tccgtacatg gcttcttgca tagcttccat acaccgtttt ttgtaattcc
 781 gatgtagtgc ggatcgaatt t

SEQ ID NO: 10

1 aacgatgccg ccatacctcct gcaaaaaaag atcaaacacga gcaagccctc tgcataccaag
 61 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc
 121 tgctggaacg ataatcatcg cattctctga gcctttttcc ggctcgtttt cctgatggat
 181 gcggaagata ccgtggctca accggatttg atccacttcg ccgacaatca aatcatcctc
 241 gtttcccatg accgcgcagc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt
 301 tccatcatat tgcctgctg cttctatcgc agcgtttagt tcttcctgac tgtttacttt
 361 ggttacgcca aaggacgaac ctgaccgtgc cggcttcaca aagacagggg aggtaagcgt
 421 cctcgccctcc ggtttgctac ctttttcaat catttgaaat tcggggacgg cgatgcccg
 481 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgcggagc tttgaatgc
 541 gcagccctaca taggggatac cagacaattc aaacagaccg tgtatcgac catcctcccc
 601 gcatttgcca tgcaaaaccg ggaaagccac gtcaatacgc cgagtttcgt attctctttc
 661 tttcatgaca agcagaccat gcgttttcct atccggggag aatatggcgg ggagactatc
 721 ggcttcccat tccgtacatg gcttcttgca tagcttccat acgcggtttt ttgtaattcc
 781 gatgtagtgc ggatcgaatt t

SEQ ID NO: 11

1 aacgatgccg ccatacctcct gcaaaaaaag atcaaacacgg gcaagccctc tgcataccaag
 61 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc
 121 tgcgggaact gtaatcatcg cattttctga gcctttttcc ggctcgtttt cctgatggat
 181 gcggaagata ccgtggctca gccggatttg atccacttcg ccgacaatca aatcatcctc
 241 gttccccatg accgcacacc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt
 301 tccatcatat tgcctgccc cttctatcgc agcgtaaagt tcttcctgac cgtttacttt
 361 ggttacgcca aaggacgaac ctgaccgtgc cggcttcaca aagacagggg aggtaagcgc
 421 accgcctcc ggcttgctac ctttatcaat aatttgaaat tcgggaacgg cgatgcccg
 481 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgcggagc tttgaatgc
 541 acagcccaca taggggatac cagacaatac aaacagcccc tgtatcgac catcctcccc
 601 gcatttgcca tgcaaaaccg ggaaagccac atcaatacgc cgtgtttcgt attcgctttc
 661 tttcatgaca agcagcccat gcgttttcct atccggggag agtatggcgg ggagactgtc
 721 ggcttcccat tccgtacatg gcttcttgca tagcttccat acaccgtttt ttgtaattcc
 781 gatgtagtgc ggatcgaatt t

SEQ ID NO: 12

FIG. 2 (cont'd)
 sheet 8 of 10

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1 aacgatgccg ccatcctcct gcaaaaaaag atcaaacacgg gcaagccctc tgcattccaag
61 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc
121 tgcgggaact gtaatcatcg cttttcttga gcctttttcc ggctcgtttt cctgatggat
181 gcggaagata ccgtggctca gccggatttg atccacttcg ccgacaatca aatcatcctc
241 gttccccatg accgcacacc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt
301 tccatcatat tgcctgccc cttctatcgc agcgtaaagt tcttccgtac cgtttacttt
361 ggttacgcca aaggacgaac ctgaccgtgc cggcttcaca aagacagggg aggtaagcgc
421 acccgctcct ggcttggtac ctttatcaat aatttgaaat tcgggaacgg cgatgcccg
481 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgaggagc tttgaatatc
541 acagcccaca taggggatac cagacaatac aaacagcccc tgtatcgcac catcctcccc
601 gcatttgcca tgcaaaaccg ggaaagccac atcaatacgc cgtgtttcgt attcgctttc
661 tttcatgaca agcagcccat gcgttttcct atccggggag agtatggcgg ggagactgtc
721 ggcttcccat tccgtacatg gcttcttgca tagcttccat acaccgtttt ttgtaattcc
781 gatgtagtgc ggatcgaatt t

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SEQ ID NO: 13

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1 aacgatgccg ccatcctcct gcaaaaaaag atcaaacacgg gcaagccctc tgcattccaag
61 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc
121 tgcgggaact gtaatcatcg cttttcttga gcctttttcc ggctcgtttt cctgatggat
181 gcggaagata ccgtggctca gccggatttg atccacttcg ccgacaatca aatcatcctc
241 gttccccatg accgcacacc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt
301 tccatcatat tgcctgccc cttctatcgc agcgtaaagt tcttccgtac cgtttacttt
361 ggttacgcca aaggacgaac ctgaccgtgc cggcttcaca aagacagggg aggtaagcgc
421 acccgctcct ggcttggtac ctttatcaat aatttgaaat tcgggaacgg cgatgcccg
481 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgaggagc tttgaatatc
541 acagcccaca taggggatac cagacaatac aaacagcccc tgtatcgcac catcctcccc
601 gcatttgcca tgcaaaaccg ggaaagccac atcaatacgc cgtgtttcgt attcgctttc
661 tttcatgaca agcagcccat gcgttttcct atccggggag agtatggcgg ggagactgtc
721 ggcttcccat tccgtacatg gcttcttgca tagcttccat acaccgtttt ttgtaattcc
781 gatgtagtgc ggatcgaatt t

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SEQ ID NO: 14

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1 gaggatgggt gcatccaggg actgtttgaa ttgtctggta tcccctatgt gggctgtgat
61 attcaaagct ccgcagcttg catggacaaa tcaactggct acattcttac aaaaaatgcg
121 ggcacgccc ttcccgaatt tcaaatgatt gataaagggt acaagccgga ggcgggtgcg
181 cttacctacc ctgtctttgt gaagccggca cggtcagggt cgctctttgg cgtaacaaa
241 gtaaacggta cggaagaact taacgctgcg atagaagcgg caggacaata tgatggaaaa
301 atcttaattg agcaagcgat ttcgggctgt gaggtcgggt gtgcggtcat ggggaacgag
361 gatgatttga ttgtcggcga agtggatcaa atccggctga gccacggtat cttccgcac
421 catcaggaaa acgagccgga aaaaggctca gaaaatgcga tgattacagt tcccgcagac
481 attccggctg aggaacgaaa tcgggtgcag gaaacggcaa agaaagtata tcgggtgctt
541 ggatgcagag ggcttgccc tggtgatctt tttttgcagg aggatggcgg catcgttcta
601 aatgaggtca acaccctgcc cggcttcacg

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SEQ ID NO: 15

FIG. 2 (cont'd)
Sheet 9 of 10

1 gaaaaattcg atccgcacta catcggaatt aaaaaagggt gtgtatggaa gctatgcaag
 61 aagccatgta cggaatggga agccgacagt cccccgcca tactctcccc ggataggaaa
 121 acgcatgggc tgcttgatcat gaaagaaagc gaatacgaaa cacggcgat tgatgtggct
 181 ttcccagttt tgcattggca atcgggggag gacggtgcga tacagggttt atttgaattg
 241 tctggcatcc cctatgtggg ctgcgatatt caaagctccg cagcttgcat ggacaaatca
 301 ctggcctaca ttcttcaaaa aatgcggggc atcgccgttc ccgaatttca aatgattgat
 361 aaaggtgaca agccggagac ggggtgcgctt acctaccctg tctttgtgaa gccggcacgg
 421 tcaggttcgt cctttggcctt aaccaaagta aacggtacgg aagaacttaa cgctgcgata
 481 gaagcggcag gacaatatga tggaaaaatc ttaattgagc aagcgatttc gggctgtgag
 541 gtcggctgtg cgggttatggg gaacgaggat gatttgattg tcggcgaagt ggatcaaatc
 601 cggctgagcg atggtatctt ccgcatccat caggaaaaacg agccggaaaaa aggatcagag
 661 aatgcgatga ttaccgttcc tgcagacatc ccagtcgggg aacgaaatcg ggtgcaggaa
 721 acggcaaaga aagtatatcg ggcgcttgga tgcagagggc ttgcccggtg tgatcttttt
 781 ttg

SEQ ID NO: 16

1 tgctgcgaga taccacagaa aacaatcagg aattgtctta actttgaaag gagtttacag
 61 catgaataaaa ataaaagtcg caattatctt cggcggttgc tcggaggaaac atgatgtgtc
 121 ggtaaaaatcc gcaatagaaa ttgctgcgaa cattaatact gaaaaattcg atccgcacta
 181 catcggaatt aaaaaaacg gcgtatggaa gctatgcaag aagccatgta cggaatggga
 241 agccgatagt cccccgcca tattctcccc ggataggaaa acgcatgggc tgcttgatcat
 301 gaaagaaaga gaatacgaaa ctcggcgat tgacgtggct ttcccggttt tgcattggca
 361 atcgggggag gatggtgcga tacagggtct gtttgaattg tctggtatcc cctatgtagg
 421 ctgcgatatt caaagctccg cagcttgcat ggacaaatca ctggcctaca ttcttcaaaa
 481 aatgcggggc atcgccgtcc ccgaatttca aatgattgaa aaaggtgaca aaccggaggc
 541 gaggacgctt acctaccctg tctttgtgaa gccggcacgg tcaggttcgt cctttggcgt
 601 aaccaaagta aacgtacgg aagaactaaa cgctgcgata gaagcagcag gacaatatga
 661 tggaaaaatc ttaattgagc aagcgatttc gggctgtgag gtcggctgag cggctcatggg
 721 aaacgaggat gatttgattg tcggcgaagt ggatcaaatc cggttgagcc acggtatctt
 781 ccgcatccat caggaaaaacg agccggaaaaa aggctcagag aatgcgatga ttatcgttcc
 841 agcagacatt ccggtcgagg aacgaaatcg ggtgcaagaa acggcaaaga aagtatatcg
 901 ggtgcttgga tgcagagggc ttgctcgtgt tgatcttttt ttgcaggagg atggcgcat
 961 cgttctaaac gaggtcaata cctgcccgg ttttacatcg tacagccgct atccacgcat
 1021 ggcggctgcc gcaggaaatca cgcttcccgc actaattgac agcctgatta cattggcgat
 1081 agagaggtga

SEQ ID NO: 5

F(Gr. 2 (cont'd))

Sheet 10 of 10

Escherichia coli
Klebsiella pneumoniae
Serratia marcescens
Citrobacter freundii
Proteus mirabilis
Salmonella enteritidis
Pseudomonas aeruginosa
Haemophilus influenzae
Haemophilus parainfluenzae
Candida glabrata
Candida albicans
Candida krusei
Candida parapsilosis
Bacillus cereus
Listeria monocytogenes
Corynebacterium urealyticum
Archanobacterium haemolyticum
Erysipelothrix rhusopathiae
Stomatococcus
Micrococcus luteus
Staphylococcus saprophyticus
Staphylococcus aureus
Staphylococcus epidermidis
Group A Streptococcus
Streptococcus mitis
Streptococcus pneumoniae
Group B Streptococcus
VanA Enterococcus faecium
VanB Enterococcus faecium
Non VanA/VanB Enterococcus faecium

Fig 3